

What is claimed is:

- 1 1. A method comprising:
2 establishing a serial physical link; and
3 providing isochronous support by a software
4 control on the serial physical link.
- 1 2. The method of claim 1 further including providing
2 synchronous support by a software control on the serial
3 physical link.
- 1 3. The method of claim 1 further including providing
2 asynchronous support by a software control on the serial
3 physical link.
- 1 4. The method of claim 1 further including providing
2 separate logical and physical layers.
- 1 5. The method of claim 4 including providing a
2 multiplexer in the physical layer coupled to the logical
3 layer.
- 1 6. The method of claim 5 including coupling a
2 baseband processor to said physical layer.
- 1 7. The method of claim 5 including coupling an
2 applications processor to said physical layer.

1 8. The method of claim 1 including providing a
2 plurality of different channel mapping schemes and enabling
3 the selection of one of said schemes.

1 9. The method of claim 8 including providing a
2 channel mapping scheme in which each of a plurality of
3 classes has its own channel and multiplexing logical
4 channels with the same priority in round robin fashion.

1 10. The method of claim 8 including dynamically
2 assigning channels on a first come, first served basis.

1 11. The method of claim 8 including assigning a
2 plurality of channels to conversational service and
3 providing a plurality of multiplexed channels for other
4 services.

1 12. An article comprising a medium storing
2 instructions that enable a processor-based system to:
3 establish a serial physical link; and
4 provide isochronous support by a software control
5 on the serial physical link.

1 13. The article of claim 12 further storing
2 instructions that enable a processor-based system to

3 provide synchronous support by a software control on the
4 serial physical link.

1 14. The article of claim 12 further storing
2 instructions that enable a processor-based system to
3 provide a plurality of different channel mapping schemes
4 and enable the selection of one of said schemes.

1 15. The article of claim 14 further storing
2 instructions that enable a processor-based system to
3 provide a channel mapping scheme in which each of a
4 plurality of classes has its own channel and multiplex
5 logical channels with the same priority in round robin
6 fashion.

1 16. The article of claim 14 further storing
2 instructions that enable a processor-based system to
3 dynamically assign channels on a first come, first served
4 basis.

1 17. The article of claim 14 further storing
2 instructions that enable a processor-based system to assign
3 a plurality of channels to conversational service and
4 provide a plurality of multiplexed channels for other
5 services.

1 18. An apparatus comprising:
2 a serial physical link that provides isochronous
3 support by a software control on the serial physical link;
4 and
5 a logical layer control to interface with said
6 physical link.

1 19. The apparatus of claim 18 wherein said link
2 provides asynchronous support by a software control on the
3 serial physical link.

1 20. The apparatus claim 19 wherein said link provides
2 synchronous support by a software control on the serial
3 physical link.

1 21. The apparatus of claim 19 wherein said physical
2 layer control is coupled to said logical layer control.

1 22. The apparatus of claim 21 wherein said physical
2 layer control includes a multiplexer coupled to the logical
3 layer control.

1 23. The apparatus of claim 22 including a baseband
2 processor coupled to said physical layer control.

1 24. The apparatus of claim 22 including an
2 applications processor coupled to said physical layer
3 control.

1 25. The apparatus of claim 19 including a control to
2 provide a plurality of different channel mapping schemes
3 and enable the selection of one of said schemes.

1 26. The apparatus of claim 25 including a control to
2 provide a channel mapping scheme in which each of a
3 plurality of classes has its own channel and to multiplex
4 logical channels with the same priority in round robin
5 fashion.

1 27. The apparatus of claim 25 including a control to
2 dynamically assign channels on a first come, first served
3 basis.

1 28. The apparatus of claim 25 including a control to
2 assign a plurality of channels to conversational service
3 and to provide a plurality of multiplexed channels for
4 other services.

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